

Title (en)  
ELEVATOR DRIVE WITH CONTROLLER FOR JERKFREE TRAVEL

Publication  
**EP 0292685 B1 19910612 (DE)**

Application  
**EP 88105925 A 19880414**

Priority  
CH 204687 A 19870527

Abstract (en)  
[origin: US4828075A] An elevator control apparatus suppresses the jerk at the start-up of speed controlled elevator installations in both directions of travel, not only the friction jerk at the transition from the static friction to the sliding friction, but also the imbalance jerk at unbalanced car loads. A set point signal multiplier is connected to the output side of a set point memory in the hoist motor drive control and the set point multiplying factor can be controlled by way of an on/off circuit. The multiplier is switched, prior to the start of the movement, by the on/off circuit to a value greater than one, and is switched back to one at start of movement in the direction of travel. The motor driving force is controlled to a value which, when summed with the imbalance force, is equal to the sliding friction force at start-up. This suppression of jerks is eminently suitable for the refitting of controlled elevator drives and increases, due to the earlier start of movement, their elevating capacity.

IPC 1-7  
**B66B 1/28**

IPC 8 full level  
**B66B 1/28** (2006.01); **B66B 1/30** (2006.01)

CPC (source: EP US)  
**B66B 1/28** (2013.01 - EP US); **B66B 1/285** (2013.01 - EP US)

Cited by  
DE112017003268B4; CN112740541A; EP1562089A3; EP0477867A3; EP0433627A3; WO2020064099A1

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AT CH DE ES FR GB IT LI

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**EP 0292685 A1 19881130; EP 0292685 B1 19910612**; AT E64355 T1 19910615; CA 1290476 C 19911008; CN 1010002 B 19901017; CN 88103105 A 19881214; DE 3863233 D1 19910718; ES 2023460 B3 19920116; FI 882322 A0 19880518; FI 882322 A 19881128; FI 96673 B 19960430; FI 96673 C 19960812; IN 171711 B 19921219; JP H0565433 B2 19930917; JP S63306176 A 19881214; US 4828075 A 19890509

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